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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/851,922	05/10/2001	Masafumi Sakamoto	134.137	4415
,	7590 06/13/2002			
James E. Nilles, Esq.			EXAMINER	
Nilles & Nilles, S.C. Firstar Center			JONES, JUDSON	
777 East Wisconsin Avenue, Suite 2000 Milwaukee, WI 53202			ART UNIT	PAPER NUMBER
Willwaukee, W1 33202			2834	

DATE MAILED: 06/13/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

	7	Application No.	Applicant(s)		
•		09/851,922	SAKAMOTO, MASAFUMI		
	Office Action Summary	Examiner	Art Unit		
4,4		Judson H Jones	2834		
Period fo	The MAILING DATE of this communication reply	on appears on the cover sheet v	vith the correspondence address		
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR IT MAILING DATE OF THIS COMMUNICAT IN IT IS NOT THE PROVISION OF THE PROVISION	TON. CFR 1.136(a). In no event, however, may a tion. s, a reply within the statutory minimum of the period will apply and will expire SIX (6) MC or statute, cause the application to become between the course of the statute.	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).		
1)⊠	Responsive to communication(s) filed of	on <u>21 May 2002</u> .			
2a) <u></u>	This action is FINAL. 2b)	☑ This action is non-final.			
3)□	Since this application is in condition for closed in accordance with the practice	allowance except for formal m	atters, prosecution as to the merits is		
Disposit	ion of Claims	undor Ex parto quayro, 1000 C			
4) 🖾	Claim(s) 1-3 is/are pending in the applic	cation.			
	4a) Of the above claim(s) is/are w	ithdrawn from consideration.			
5)□	Claim(s) is/are allowed.				
6)⊠	Claim(s) 1-3 is/are rejected.				
7)	Claim(s) is/are objected to.				
	Claim(s) are subject to restriction	and/or election requirement.			
	tion Papers				
•	The specification is objected to by the Ex				
10)	The drawing(s) filed on is/are: a)[
	Applicant may not request that any objection				
11)	The proposed drawing correction filed or		disapproved by the Examiner.		
40)	If approved, corrected drawings are required.				
,—	The oath or declaration is objected to by	the Examiner.			
•	under 35 U.S.C. §§ 119 and 120	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0. 0.440(0) (4) 0.7 (6)		
•	Acknowledgment is made of a claim for	toreign priority under 35 U.S.C	§ 119(a)-(d) of (f).		
а)⊠ All b)□ Some * c)□ None of:				
	1. Certified copies of the priority documents have been received.				
	 2. Certified copies of the priority documents have been received in Application No. <u>09/437,020</u>. 3. Copies of the certified copies of the priority documents have been received in this National Stage 				
	3. Copies of the certified copies of t application from the Internation See the attached detailed Office action for	onal Bureau (PCT Rule 17.2(a)).		
14)	Acknowledgment is made of a claim for o	Iomestic priority under 35 U.S.	C. § 119(e) (to a provisional application).		
	a) The translation of the foreign langu Acknowledgment is made of a claim for				
Attachme		· ·			
1) 🔀 Not 2) 🔲 Not	cice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO- prmation Disclosure Statement(s) (PTO-1449) Pape	.948) 5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fulton in view of Hendershot, Jr. Fulton discloses in figures 4 and 5 a stator for a switched reluctance motor having three phase stator windings with stator windings of one phase wound around a first stator pole and every third main pole combined with a rotor with two N poles and two S poles. While one of the references cited in the Fulton patent is *Fully Pitched-Winding Switched-Reluctance* and Stepping-Motor Arrangements from an IEEE proceeding, Fulton does not describe his device as being a stepping motor. However, Hendershot, Jr. teaches in column 1 lines 44-49 that switched reluctance motors can be used as stepping motors. Since Fulton and Hendershot, Jr. are both from the same field of endeavor, it would have been obvious for one of ordinary skill in the art to have utilized the Fulton motor as a stepping motor.

In regard to claim 2, see figure 4.

In regard to claim 3, Fulton discloses the permanent magnet type stepping motor but does not disclose a plurality of teeth formed on the stator main poles. However, Hendershot, Jr. teaches using teeth in stepping motors in column 1 lines 51-60. Since Hendershot, Jr. and Fulton are both from the same field of endeavor, it would have been obvious for one of ordinary skill in

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the art to have utilized teeth in the device of Fulton in order to facilitate the progression of the rotor at small step angles, thus increasing the precision and usefulness of the device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Judson H Jones whose telephone number is 703-308-0115. The examiner can normally be reached on 8-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3431 for regular communications and 703-305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

JHJ/// June 10, 2002

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